

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:14:49 ON 25 FEB 2002

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STRUCTURE FILE UPDATES: 22 FEB 2001 HIGHEST RN 395056-55-0

DICTIONARY FILE UPDATES: 22 FEB 2001 HIGHEST RN 395056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 17, Searching Properties in the CAS  
Registry File, for complete details:

[STN: www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf](http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf)

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with 'P', may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> s sql < 15

L1 456444 SQL < 15

=> s REGVTRK/sjsp (SEQ ID NO:3580)

L1 452 REGVTRK/SQSP

=> s i2 and i1

L3 3 L1 AND L1

=> fil caplus ;s i3 and py < 1993

FILE 'CAPLUS' ENTERED AT 14:15:13 ON 25 FEB 2002

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FILE COVERS 1907 - 15 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 14 Feb 2002 (20020224/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/FL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

9 L3  
14650989 PY < 1993  
L4 1 L3 AND PY < 1993

=> s l4 not p/dt  
3795475 P/DT  
L5 0 L4 NOT P/DT

=> fil reg  
FILE 'REGISTRY' ENTERED AT 14:15:23 ON 25 FEB 2002  
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STRUCTURE FILE UPDATES: 12 FEB 2002 HIGHEST RN 395056-55-0  
DICTIONARY FILE UPDATES: 12 FEB 2002 HIGHEST RN 395056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN-STN-RES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAplus files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with /P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files

incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698, worldwide, or send an e-mail to help@cas.org for further assistance or to receive a credit for any duplicate searches.

```
=> s s FLLLADAFV/sqsp
      IS NOT A VALID AMINO ACID SYMBOL
```

```
=> s FLLLADAFV/sqsp (SEQ ID NO:3568)
L6          161 FLLLADAFV/SQSP
```

```
=> s L6 and L1
L7          2 L6 AND L1
```

```
=> fil caplus ;s L7 and py < 1994
FILE 'CAPLUS' ENTERED AT 14:19:44 ON 25 FEB 2002
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```

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FILE COVERS 1907 - 25 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (URL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/C/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

```
      3 L7
      15245640 PY < 1994
L8          2 L7 AND PY < 1994
```

```
=> fil reg
FILE 'REGISTRY' ENTERED AT 14:16:51 ON 25 FEB 2002
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```

STRUCTURE FILE UPDATES: 22 FEB 2002 HIGHEST RN 395056-55-0  
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TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 37, Searching Properties in the CAS  
Registry File, for complete details:

[http://www.cas.org/ONLINE/STN\\_STNOTES/stnotes\\_37.pdf](http://www.cas.org/ONLINE/STN_STNOTES/stnotes_37.pdf)

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SEI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the FREE role indicator were not affected.

Customers running searches and/or SEIs in the H/Z/CA/CAPLUS files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6513 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> s TLWAYQATV/sqsp (SEQ ID NO:3569)  
L9 235 TLWAYQATV/SQSP

=> s l9 and l1  
L10 2 L9 AND L1

=> fil caplus /s l10 and py < 1994  
FILE 'CAPLUS' ENTERED AT 14:17:11 ON 25 FEB 2002  
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This file contains CAS Registry Numbers for easy and accurate  
substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/PL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

```
          9 L10
      15245643 PY < 1994
L11          1 L10 AND PY < 1994
```

```
=> s l11 not p/dt
      3725473 P/DT
L12          1 L11 NOT P/DT
```

```
=> set graph off
SET COMMAND COMPLETED
```

```
=> d sbib abs hitseq
```

```
L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
```

```
AN 1993:668417 CAPLUS
```

```
DN 119:268417
```

```
TI Prominent role of secondary anchor residues in peptide binding to HLA-A2.1 molecules
```

```
AU Suppert, Jorg; Sidney, John; Celis, Esteban; Kubo, Ralph T.; Grey, Howard M.; Sette, Alessandro
```

```
CS Cytel Corp., San Diego, CA, 92121, USA
```

```
SO Cell (Cambridge, Mass.) (1993), 74(5), 929-37
```

```
CODEN: CELLE5; ISSN: 0092-8674
```

```
DT Journal
```

```
LA English
```

```
AB The functional determinants of histocompatibility leukocyte antigen (HLA)-A2.1-peptide interactions have been detailed by the use of quant. mol. binding assays and a chem. synthesized library of naturally occurring epitopes. The importance of hydrophobic anchor residues in position 2 and the C-terminus was confirmed. These anchors are necessary, but not sufficient, for high affinity binding, as the predictions based solely on these anchors are only about 30% accurate. Prominent roles for several other positions (1, 3, and 7) were also demonstrated. The location of these residues within the peptides matches secondary A2.1 pockets previously demonstrated by x-ray crystallog. From a functional standpoint, similar dominant neg. effects on binding were obsd. for charged residues in both nonamers and decamers, while pos. effects differed between nonamers and decamers. An extended motif taking into account secondary anchors increased the predictability of A2.1-binding epitopes to a level of 70%, underscoring the practical usefulness of extended motifs.
```

```
IT 151456-28-9P
```

```
(prepn. and HLA-A2.1 antigen binding by, secondary anchor residues in relation to)
```

```
RN 151456-28-9 CAPLUS
```

```
CN L-Valine, L-tyrosyl-L-leucyl-L-valyl-L-alanyl-L-tyrosyl-L-glutaminyl-L-alanyl-L-threonyl- (3CI) (CA INDEX NAME)
```

SEQ 1 YLVAYQATV

Absolute stereochemistry.

cd fil reg

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TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/E/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/E/CA/CAPLUS files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
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CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> s RLIVFPDLGV/s.jsp (SEQ ID NO:3570)  
L13 151 RLIVFPDLGV/SQSP

=> s l13 and l1  
L14 3 L13 AND L1

=> fil caplus ;s l14 and py < 1994  
FILE 'CAPLUS' ENTERED AT 14:18:14 ON 25 FEB 2002  
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FILE COVERS 1997 - 25 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

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CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

0 L14  
15243643 PY < 1994  
L15 0 L14 AND PY < 1994

=> fil reg  
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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STN-TEL/stnprop.pdf>

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Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files

incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-348-6533 in North America or 1-614-447-3698, worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to receive a credit for any duplicate searches.

=> s DIMGYIPLV/sqsp (SEQ ID NO:3571)  
L16 309 DIMGYIPLV/SQSP

=> s l16 and l1  
L17 7 L16 AND L1

=> fil caplus ; s l1' and py < 1994  
FILE 'CAPLUS' ENTERED AT 14:18:41 ON 25 FEB 2002  
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FILE COVERS 1907 - 15 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 21 Feb 2002 (20020124/ED)

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The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/2/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

24 L17  
15249646 PY < 1994  
L18 1 L17 AND PY < 1994

=> s l18 not p/dt  
3798475 P/DT  
L19 1 L18 NOT P/DT

=> d sbib abs hitseq

L19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AN 1993:231789 CAPLUS



DN 118:231780  
 TI Interaction of immune sera with synthetic peptides corresponding to the structural protein region of hepatitis C virus  
 AU Ching, Wei Mei; Wychowski, Czeslaw; Beach, Michael J.; Wang, Hui; Davies, Christine L.; Carl, Mitch; Bradley, Daniel W.; Alter, Harvey J.; Feinstone, Stephen M.; Shih, J. Wai Kue  
 CS Nav. Med. Res. Inst., Bethesda, MD, 20889, USA  
 SO Proc. Natl. Acad. Sci. U. S. A. (1992), 89(8), 3190-4  
 COTEN: PNASAC; ISSN: 0037-8424  
 DT Journal  
 LA English  
 AB Comparison of the deduced amino acid sequence from the structural region of the Hutchinson strain of hepatitis C virus (HCV-H) with 4 other HCV isolates clearly divides the 5 isolates into 2 groups based on sequence homol. The first group includes HCV-H, HCV-1, and HC-J1, while the second includes HCV-J1 and HC-J4. Among the 5 isolates the first 190 residues (putative nucleocapsid) are highly conserved whereas residues 196-513 exhibit significant diversity and include a hypervariable region encompassing residues 386-404. A series of overlapping decapeptides were synthesized by solid-phase pin technol. according to sequence from HCV-H (amino acids 1-513), HC-J4 (amino acids 181-513), and regions from the 3 other isolates which exhibited sequence variation. A modified ELISA was used to measure immunoreactivity of sera from clin. posttransfusion cases and exptl. infected chimpanzees. Comparison of pre- and postinfection samples revealed 16 clusters of immunoreactive peptides within the structural region, none of which was found in the hypervariable region. Only one cluster (amino acids 73-89) was recognized by all human and chimpanzee sera. Clear variation in the immune response was obsd. between individuals, although no obvious difference in reactivity between acute and chronic cases was obsd. Within individual profiles, the reactivity to each peptide cluster and the total no. of reactive clusters increased over time.  
 IT 143246-51-9  
 (as epitope of hepatitis C virus HCV-H strain, human immune sera reactivity with)  
 RN 143246-51-9 CASLUS  
 CN Glycine, glycyl-L-phenylalanyl-L-alanyl-L- $\alpha$ -aspartyl-L-leucyl-L-methionylglycyl-L-tyrosyl-L-isoleucyl-L-prolyl-L-leucyl-L-valyl- (9CI)  
 (CA INDEX NAME)

SEQ 1 SEAPLMCYIP LVG

Absolute stereochemistry.

=> fil rep

FILE 'REGISTRY' ENTERED AT 14:19:14 ON 23 FEB 2002  
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TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 17, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STN0143/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with \*P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698, worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to receive a credit for any duplicate searches.

=> s ILAGYGAGV/sqsp (SEQ ID NO:3575)  
L10 174 ILAGYGAGV/SQSP

=> s L10 and L1  
L11 4 L10 AND L1

=> fil caplus ;s L11 and py < 1994  
FILE 'CAPLUS' ENTERED AT 14:19:36 ON 23 FEB 2002  
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FILE COVERS 1901 - 23 Feb 2002 VOL 130 ISS 9  
FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (URL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches

and/or SDIs in the H/C/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

11 L11  
15141645 PY < 1994  
L22 0 L21 AND PY < 1994

\* fil reg

FILE 'REGISTRY' ENTERED AT 14:13:44 ON 25 FEB 2002  
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TECA INFORMATION NOW CURRENT THROUGH July 7, 2001

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 17, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNNOTE/stnnotes/17.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/C/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/C/CA/CAPLUS files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6553 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

\* s YLLPRRGPREL/sqsp (SEQ ID NO:3576)  
L13 143 YLLPRRGPREL/SQSP

\* s L23 and L1  
L24 6 L23 AND L1

\* fil caplus ;s L24 and py < 1994  
FILE 'CAPLUS' ENTERED AT 14:20:03 ON 25 FEB 2002  
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FILE COVERS 1907 - 26 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

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The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/2/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

18 L24  
15249645 PY < 1994  
L25 1 L24 AND PY < 1994

=> s L25 not p/dt  
3798475 P/DT

L26 1 L25 NOT P/DT

=> d snib sbs hitseq

L26 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 1994:131763 CAPLUS

DN 1994:131763

TI A human monoclonal antibody specific for the N terminus of the hepatitis C virus nucleocapsid protein

AU Cerino, Antonella; Boender, Piet; La Monica, Nicola; Posa, Carlo; Habets, Winand; Mondelli, Mario U.

CS Policlin. San Matteo, Univ. Pavia, Pavia, 27100, Italy

SO J. Immunol. (1993), 151(12), 7005-15

CODEN: JIMAB3; ISSN: 0022-1767

DT Journal

LA English

AB PBMC from a patient with chronic hepatitis C virus (HCV) infection were immortalized with EBV and plated by limiting diln. Cultures secreting antibodies reactive in a com. HCV II generation ELISA, which incorporates Ag derived from the nucleocapsid, NS3, and NS4 regions, were repeatedly cloned in the presence of feeder cells and growth factors. Of 23 initially immunoreactive cultures, only one cloned line, designated B12.F8, secreted HCV nucleoprotein-specific IgG1(k), whereas no reaction with recombinant polypeptides derived from NS3, NS4, and NS5 regions were documented. Human mAb (hmAb) B12.F8 was shown to recognize the native HCV nucleoprotein expressed in eukaryotic cells transfected with a core cDNA construct by immunofluorescence. The fine specificity of this hmAb was evaluated using

synthetic oligopeptides covering the entire HCV nucleocapsid region. A weak but consistent reactivity was obsd. by PEPSCAN using a 12-mer encompassing residues 34-45 of the HCV-deduced amino acid sequence. Such weak reactivity is indicative for conformational epitopes and, in concurrence with this assumption, the authors found that longer peptides from the region contg. residues 27-59 were more efficiently recognized and effectively inhibited binding of hmAb B12.F3 to recombinant nucleocapsid protein. Several overlapping immunoreactive fragments from the nucleocapsid region were selected from a random cDNA library consisting of DNase I fragments of recombinant core Ag. Best reactive recombinants were identified within residues 1-73 of the HCV sequence, in agreement with the results obtained using synthetic peptides. Comparative expts. on the fine specificity of sera from HCV-infected patients with anticore antibodies invariably showed recognition of peptides 8-40 and 27-59, as well as recombinant fragments spanning from residues 1-73, suggesting that hmAb B12.F3 identifies a major B cell epitope within the immunodominant nucleoprotein N-terminal subregion.

IT 153010-10-7 153010-11-8 153010-12-9

(of nucleocapsid protein of hepatitis C virus, human monoclonal antibody reactivity to, structure in)

RN 153010-10-7 CAPLUS

CN L-Leucine, N-[N2-[1-[N-[N2-[N2-[1-[N-[N-(N-glycyl-L-valyl)-L-tyrosyl]-L-leucyl]-L-leucyl]-L-prolyl]-L-arginyl]-L-arginyl]glycyl]-L-prolyl]-L-arginyl]- (PCI) (CA INDEX NAME)

SEQ 1 GVYLLPFRGPF FL

Absolute stereochemistry.

RN 153010-11-8 CAPLUS

CN Glycine, N-[N-[N2-[1-[N-[N2-[N2-[1-[N-[N-(N-L-valyl-L-tyrosyl)-L-leucyl]-L-leucyl]-L-prolyl]-L-arginyl]-L-arginyl]glycyl]-L-prolyl]-L-arginyl]-L-leucyl]- (PCI) (CA INDEX NAME)

SEQ 1 VYLLPFRGPF DG

Absolute stereochemistry.

RN 153010-12-9 CAPLUS

CN L-Valine, N-[N-[N2-[1-[N-[N2-[N2-[1-[N-(N-L-tyrosyl-L-leucyl)-L-leucyl]-L-prolyl]-L-arginyl]-L-arginyl]glycyl]-L-prolyl]-L-arginyl]-L-leucyl]glycyl]- (PCI) (CA INDEX NAME)

SEQ 1 YILPFRGSPRL GV

Absolute stereochemistry.

=> fil req

FILE 'REGISTRY' ENTERED AT 14:20:30 ON 25 FEB 2002

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STRUCTURE FILE UPDATES: 22 FEB 2002 HIGHEST PN 395056-55-0  
DICTIONARY FILE UPDATES: 22 FEB 2002 HIGHEST PN 395056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/3/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SSI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/3/CA/CAPLUS files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-343-6533 in North America or 1-614-447-3696,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

File YLVTRHADV/sqsp (SEQ ID NO:3578)  
L27 223 YLVTRHADV/SQSP

File L27 and L1  
L28 4 L27 AND L1

=> file caplus /s l28 and py c 1994  
FILE 'CAPLUS' ENTERED AT 14:20:49 ON 25 FEB 2002  
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FILE COVERS 1901 - 25 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

This file contains CAS Registry Numbers for easy and accurate  
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The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CAS/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

8 L33  
15145645 PY < 1994  
L29 1 L33 AND PY < 1994

=> s L29 not p/at  
3705475 P/DT  
L30 1 L29 NOT P/DT

=> d shik abs hitseq

L30 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 119:168417 CAPLUS

DI 119:168417

TI Prominent role of secondary anchor residues in peptide binding to HLA-A2.1 molecules

AU Ruppert, Jorg; Sidney, John; Celis, Esteban; Kubo, Ralph T.; Grey, Howard M.; Sette, Alessandro

OR Cytel Corp., San Diego, CA, 92121, USA

SO Cell (Cambridge, Mass.) (1993), 74(5), 923-37

COGEN: CELLS5; ISSN: 0092-8674

DT Journal

LA English

AB The functional determinants of histocompatibility leukocyte antigen (HLA)-A2.1-peptide interactions have been detailed by the use of quant. mol. binding assays and a chem. synthesized library of naturally occurring epitopes. The importance of hydrophobic anchor residues in position 2 and the C-terminus was confirmed. These anchors are necessary, but not sufficient, for high affinity binding, as the predictions based solely on these anchors are only about 30% accurate. Prominent roles for several other positions (1, 3, and 7) were also demonstrated. The location of these residues within the peptides matches secondary A2.1 pockets previously demonstrated by x-ray crystallog. From a functional standpoint, similar dominant neg. effects on binding were obsd. for charged residues in both nonamers and decamers, while pos. effects differed between nonamers and decamers. An extended motif taking into account secondary anchors increased the predictability of A2.1-binding epitopes to a level of 70, underscoring the practical usefulness of extended motifs.

IT 151423-70-OP

(prepn. and HLA-A2.1 antigen binding by, secondary anchor residues in relation to)

RN 151423-70-0 CAPLUS

CN L-Valine, L-tyrosyl-L-leucyl-L-valyl-L-threonyl-L-arginyl-L-histidyl-L-alanyl-L- $\alpha$ -aspartyl- (931) (CA INDEX NAME)

SEQ 1 YLVTRHADV

Absolute stereochemistry.

=> fil reg ;s CTCGSSLLY'sqsp  
FILE 'REGISTRY' ENTERED AT 14:21:15 ON 25 FEB 2002  
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STRUCTURE FILE UPDATES: 22 FEB 2001 HIGHEST RN 395056-55-0  
DICTIONARY FILE UPDATES: 21 FEB 2001 HIGHEST RN 395056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNnote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STN/TER/STNnotes17.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/C/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/C/CA/CAPLUS files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-548-6433 in North America or 1-614-447-3693,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

L31 204 CTCGSSLLY/SQSP (SEQ ID NO:3591)

=> s l31 and l1

L32 5 L31 AND L1

=> fil caplus ;s l23 and py < 1994

FILE 'CAPLUS' ENTERED AT 14:31:26 ON 25 FEB 2002  
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FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

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The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/C/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

```
=> s l33 and py < 1994
      5 L33
      15245645 PY < 1994
L33      0 L33 AND PY < 1994
```

```
=> fil reg
FILE 'REGISTRY' ENTERED AT 14:24:11 ON 26 FEB 2002
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STRUCTURE FILE UPDATES: 22 FEB 2002 HIGHEST RN 395056-55-0  
DICTIONARY FILE UPDATES: 22 FEB 2002 HIGHEST RN 395056-55-0

TECA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 37, Searching Properties in the CAS Registry File, for complete details:

WEB: [www.cas.org/ONLINE/STN/STNOTES/stnnotes37.pdf](http://www.cas.org/ONLINE/STN/STNOTES/stnnotes37.pdf)

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worldwide, or send an e-mail to help@cas.org for further assistance or to receive a credit for any duplicate searches.

== s KTSEFSQPF'sqsp (SEQ ID NO:3579)  
L34 530 KTSEFSQPF/SQSP

== s L34 and L1  
L35 6 L34 AND L1

== fil caplus ;s L35 and py < 1994  
FILE 'CAPLUS' ENTERED AT 14:24:40 ON 25 FEB 2002  
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FILE COVERS 12.7 - 25 Feb 2002 VOL 136 ISS 2  
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The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/Caplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

== L35  
15245645 PY < 1994  
L36 1 L35 AND PY < 1994

== s L36 not pdt  
3795475 P/DT  
L37 1 L36 NOT P DT

== d sbib abs hitseq

L37 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AN 1994:131763 CAPLUS  
DN 129:131763  
TI A human monoclonal antibody specific for the N terminus of the hepatitis C virus nucleocapsid protein

AU Cerino, Antonella; Boender, Piet; La Monica, Nicola; Rosa, Carlo; Habets, Winand; Mondelli, Mario U.

CS Policlin. San Matteo, Univ. Pavia, Pavia, 27100, Italy

SO J. Immunol. (1993), 151(12), 7005-15

CODEN: JIMMAB; ISSN: 0022-1767

DT Journal

LA English

AB FBMG from a patient with chronic hepatitis C virus (HCV) infection were immortalized with EBV and plated by limiting diln. Cultures secreting antibodies reactive in a com. HCV II generation ELISA, which incorporates Ag derived from the nucleocapsid, NS3, and NS4 regions, were repeatedly cloned in the presence of feeder cells and growth factors. Of 23 initially immunoreactive cultures, only one cloned line, designated B12.F8, secreted HCV nucleoprotein-specific IgG1(k), whereas no reaction with recombinant polypeptides derived from NS3, NS4, and NS5 regions were documented. Human mAb (hmAb B12.F8 was shown to recognize the native HCV nucleoprotein expressed in eukaryotic cells transfected with a core cDNA construct by immunofluorescence. The fine specificity of this hmAb was evaluated using synthetic oligopeptides covering the entire HCV nucleocapsid region. A weak but consistent reactivity was obsd. by PEPSCAN using a 12-mer encompassing residues 34-45 of the HCV-deduced amino acid sequence. Such weak reactivity is indicative for conformational epitopes and, in concurrence with this assumption, the authors found that longer peptides from the region contg. residues 27-59 were more efficiently recognized and effectively inhibited binding of hmAb B12.F8 to recombinant nucleocapsid protein. Several overlapping immunoreactive fragments from the nucleocapsid region were selected from a random cDNA library consisting of DNase I fragments of recombinant core Ag. Best reactive recombinants were identified within residues 1-78 of the HCV sequence, in agreement with the results obtained using synthetic peptides. Comparative expts. on the fine specificity of sera from HCV-infected patients with anticore antibodies invariably showed recognition of peptides 8-40 and 27-59, as well as recombinant fragments spanning from residues 1-73, suggesting that hmAb B12.F8 identifies a major B cell epitope within the immunodominant nucleoprotein N-terminal subregion.

IT 153010-19-6 153010-20-9

(of nucleocapsid protein of hepatitis C virus, human monoclonal antibody reactivity to, structure in)

RN 153010-19-6 CAPLUS

CN L-Arginine, N2-[1-[N2-[N-[N2-[N-[N-[N2-[N2-(N-L-alanyl-L-threonyl)-L-arginyl]-L-lysyl]-L-threonyl]-L-seryl]-L- $\alpha$ -glutamyl]-L-arginyl]-L-seryl]-L-glutamyl]-L-prolyl]- (9CI) (CA INDEX NAME)

SEQ 1 ATERTSERSQ FF

Absolute stereochemistry.

RN 153010-20-9 CAPLUS

CN Glycine, N-[N2-[1-[N2-[N-[N2-[N-[N-[N2-[N2-L-threonyl-L-arginyl]-L-lysyl]-L-threonyl]-L-seryl]-L- $\alpha$ -glutamyl]-L-arginyl]-L-seryl]-L-glutamyl]-L-prolyl]-L-arginyl]- (9CI) (CA INDEX NAME)

SEQ 1 TRKTSERSQP FG

Absolute stereochemistry.

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:25:19 ON 25 FEB 2002

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DICTIONARY FILE UPDATES: 12 FEB 2002 HIGHEST FN 395056-55-0

ISCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes.7.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/3/CA/Caplus files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the IREF role indicator were not affected.

Customers running searches and/or SDIs in the H/3/CA/Caplus files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> s QLFTESPR/sqsp (SEQ ID NO:3581)

L35 522 QLFTESPR/SQSP

=> s L35 and L1

L39 2 L35 AND L1

=> fil caplus /s L39 and py < 1994

FILE 'CAPLUS' ENTERED AT 14:25:33 ON 25 FEB 2002

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FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

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The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H-Z/CAS/CAplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

7 139  
15245645 PY < 1994  
L40 1 139 AND PY < 1994

```

* s 140 not p dt
      1795475 P DT
L41      140 NOT P DDT

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C:\> cd c:\program files\american chemical society\
C:\program files\american chemical society> reg
FILE 'REGISTRY' ENTERED AT 14:25:46 ON 25 FEB 2002
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STRUCTURE FILE UPDATES:      22 FEB 2002   HIGHEST FN 395056-55-0
DICTIONARY FILE UPDATES:    22 FEB 2002   HIGHEST FN 395056-55-0

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ISCA INFORMATION NOW CURRENT THROUGH July 7, 1991

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical prop-rtty data is now available. See HELP PROPERTIES for more information. See STNote 17, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN-STNOTES-stnotes1.pdf>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H Z/CAC/CAGlus files between 1/27/91 and 1/28/92. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with 'P', may have yielded incomplete results. As of 1/23/92, the situation has been resolved. Also, note that searches conducted using the FREE role indicator were not affected.

Customers running searches and/or SDIs in the H2/CA/CAplus files incorporating CAS Registry Numbers with the P indicator between 12/27/01

and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698, worldwide, or send an e-mail to help@cas.org for further assistance or to receive a credit for any duplicate searches.

=> s RMYVGGVEHR/sqsp (SEQ ID NO:3582)  
L42 193 RMYVGGVEHR:SQSP

=> s L43 and L1  
L43 1 L43 AND L1

=> fil caplus ; s L43 and py < 1994  
FILE 'CAPLUS' ENTERED AT 14:26:03 ON 25 FEB 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 23 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 24 Feb 2002 (20020224ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA Caplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

4 L43  
15245645 PY < 1994  
L44 0 L43 AND PY < 1994

=> fil reg  
FILE 'REGISTRY' ENTERED AT 14:26:15 ON 25 FEB 2002  
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STRUCTURE FILE UPDATES: 22 FEB 2002 HIGHEST RN 395056-55-0  
DICTIONARY FILE UPDATES: 22 FEB 2002 HIGHEST RN 395056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/SINOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z CA/CAPLUS files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with /P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the FREE role indicator were not affected.

Customers running searches and/or SDIs in the H/Z CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-841-6633 in North America or 1-614-447-3693, worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to receive a credit for any duplicate searches.

```
=> s LIFCHSKKK/sqsp (SEQ ID NO:3583)
L45          314 LIFCHSKKK/SQSP
```

```
=> s L45 and L1
L46          2 L45 AND L1
```

```
=> fil caplus /s L46 and py < 1994
FILE 'CAPLUS' ENTERED AT 14:16:33 ON 25 FEB 2002
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```

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```
FILE COVERS 1907 - 25 Feb 2002 VOL 136 ISS 9
FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

5 L46  
15145645 PY < 1994  
L47 0 L46 AND PY < 1994

=> fil reg  
FILE 'REGISTRY' ENTERED AT 14:16:40 ON 25 FEB 2002  
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STRUCTURE FILE UPDATES: 22 FEB 2002 HIGHEST RN 399056-55-0  
DICTIONARY FILE UPDATES: 22 FEB 2002 HIGHEST RN 399056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

[WWW.CAS.ORG/ONLINE/STNOTES/stnotes27.pdf](http://WWW.CAS.ORG/ONLINE/STNOTES/stnotes27.pdf)

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with 'P', may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-848-0533 in North America or 1-614-447-3698, worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to receive a credit for any duplicate searches.

=> s GVAGALVAFK/s.jsp (SEQ ID NO:3584)  
L48 163 GVAGALVAFK/SJSP

=> s 148 and 11  
L49 2 L48 AND L1

=> fil caplus ; s 148 and py < 1994  
FILE 'CAPLUS' ENTERED AT 14:26:59 ON 25 FEB 2002  
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FILE COVERS 1997 - 25 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

10 L49  
15245645 PY < 1994  
L50 0 L49 AND PY < 1994

to fil reg

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STRUCTURE FILE UPDATES: 22 FEB 2002 HIGHEST EN 396056-55-0  
DICTIONARY FILE UPDATES: 22 FEB 2002 HIGHEST EN 396056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNnote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.htm>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAplus files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number

or by qualifying an L-number with /P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PPEP role indicator were not affected.

Customers running searches and/or SDIs in the H/C/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-644-6813 in North America or 1-614-447-3698, worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to receive a credit for any duplicate searches.

==> TLGFGAYMSK/sqsp (SEQ ID NO:3586)  
L51 236 TLGFGAYMSK SQSP

==> L51 and L1  
L52 3 L51 AND L1

==> fil caplus ;s L51 and py < 1994  
FILE 'CAPLUS' ENTERED AT 14:37:30 ON 25 FEB 2002  
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FILE COVERS 1907 - 15 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 14 Feb 2002 (20020224/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP RULES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/C/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

4 L52  
15245645 PY < 1994  
L53 0 L52 AND PY < 1994

==> fil reg  
FILE 'REGISTRY' ENTERED AT 14:27:46 ON 25 FEB 2002  
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STRUCTURE FILE UPDATES: 22 FEB 2002 HIGHEST RN 395056-55-0  
DICTIONARY FILE UPDATES: 22 FEB 2002 HIGHEST RN 395056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.acs.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PEEP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-343-6533 in North America or 1-614-447-3693,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

==> LPGCCPSIF/sgpp (SEQ ID NO:3588)  
L54 404 LPGCCPSIF/SGPP

==> L54 and L1  
L55 7 L54 AND L1

==> fil caplus  
FILE 'CAPLUS' ENTERED AT 14:27:57 ON 25 FEB 2002  
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FILE COVERS 1907 - 25 Feb 2002 VOL 136 ISS 9  
FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

This file contains CAS Registry Numbers for easy and accurate

substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (PL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

```
=> s l55 and py < 1995
      4 L55
      15874951 PY < 1995
L56      6 L55 AND PY < 1995
```

```
=> fil reg
FILE 'REGISTRY' ENTERED AT 11:35:13 ON 25 FEB 2002
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STRUCTURE FILE UPDATES: 22 FEB 2002 HIGHEST RN 395056-55-0  
DICTIONARY FILE UPDATES: 22 FEB 2002 HIGHEST RN 395056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/STN/STN-FILES/stnotes/27.pdf>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with /P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-343-6533 in North America or 1-614-447-3693, worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to receive a credit for any duplicate searches.

```
=> s LTCGFADLMGY/sqsp (SEQ ID NO:2257)
L57      344 LTCGFADLMGY/SQSP
```

```
=> s l57 and l1
L58      1 L57 AND L1
```

=> fil caplus ;s 158

FILE 'CAPLUS' ENTERED AT 14:28:25 ON 25 FEB 2002

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FILE COVERS 1997 - 26 Feb 2002 VOL 136 ISS 2

FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (REL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/C/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

159 3 L58

=> s 159 and py < 1995

15874951 PY < 1995

L60 0 L59 AND PY < 1995

=> fil eg

'EG' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'CAPLUS'

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:28:40 ON 25 FEB 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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STRUCTURE FILE UPDATES: 2 FEB 2002 HIGHEST RN 395056-55-0

DICTIONARY FILE UPDATES: 2 FEB 2002 HIGHEST RN 395056-55-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 22, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNCHRP/index00.pdf>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator between 12/17/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-541-6533 in North America or 1-614-447-3696, worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to receive a credit for any duplicate searches.

= s LSAFSLHSY/sisp (SEQ ID NO:2251)

L61 174 LSAFSLHSY/QSP

= s l61 and l1

L62 3 L61 AND L1

= fil caplus ; s l61 and py 1295

FILE 'CAPLUS' ENTERED AT 14:25:59 ON 25 FEB 2002

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FILE COVERS 1907 - 25 Feb 2002 VOL 136 ISS 2

FILE LAST UPDATED: 24 Feb 2002 (20020224/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches

and/or SDIs in the H/3/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

4 L62  
15874351 PY < 1995  
L63 0 L62 AND PY < 1995

=> 4 cos full

FILE & COST CENTER	QUANTITY @	RATE	ESTIMATED COST U.S. DOLLARS
HOME FILE COST=			
CONNECT HOURS	0.01 @	15.00	0.15
INTERNET HOURS	0.01 @	6.00	0.06
REGISTRY FILE COST=			
CONNECT HOURS	0.01 @	32.00	0.32
INTERNET HOURS	0.01 @	6.00	0.06
REGISTRY FILE COST=			
CONNECT HOURS	0.01 @	32.00	0.32
INTERNET HOURS	0.01 @	6.00	0.06
SEA SUBSEQ PROTEIN	1 @	26.50	26.50
SEARCH TERMS IN SEQ FIELD SQL	1 @	4.00	4.00
CAPLUS FILE COST=			
CONNECT HOURS	0.01 @	32.00	0.32
INTERNET HOURS	0.01 @	6.00	0.06
SEARCH TERMS IN FIELD DT	1 @	1.55	1.55
SEARCH TERMS IN FIELD PY	1 @	1.55	1.55
CAPLUS FEE (5%)	3.42 @	0.05	0.17
REGISTRY FILE COST=			
CONNECT HOURS	0.01 @	32.00	0.32
INTERNET HOURS	0.01 @	6.00	0.06
SEA SUBSEQ PROTEIN	1 @	26.50	26.50
CAPLUS FILE COST=			
CONNECT HOURS	0.02 @	6.00	0.12
INTERNET HOURS	0.02 @	6.00	0.12
DISPLAYS IN FORMAT BIB	2 @	0.91	1.82
SEARCH TERMS IN FIELD DT	1 @	1.55	1.55
SEARCH TERMS IN FIELD PY	1 @	1.55	1.55
CAPLUS FEE (5%)	8.56 @	0.03	0.28
REGISTRY FILE COST=			
CONNECT HOURS	0.01 @	32.00	0.32
INTERNET HOURS	0.01 @	6.00	0.06
SEA SUBSEQ PROTEIN	1 @	26.50	26.50
CAPLUS FILE COST=			
CONNECT HOURS	0.01 @	32.00	0.32
INTERNET HOURS	0.01 @	6.00	0.06
DISPLAYS IN FORMAT ABS	1 @	1.27	1.27
DISPLAYS IN FORMAT BIB	1 @	0.91	0.91
DISPLAYS IN HITSEQ (SEQ DATA)	1 @	4.00	4.00
DISPLAYS IN HITSTR (EN DATA)	1 @	0.35	0.35
SEARCH TERMS IN FIELD DT	1 @	1.55	1.55
SEARCH TERMS IN FIELD PY	1 @	1.55	1.55
CAPLUS FEE (5%)	9.95 @	0.05	0.50
REGISTRY FILE COST=			
CONNECT HOURS	0.01 @	32.00	0.32
INTERNET HOURS	0.01 @	6.00	0.06
SEA SUBSEQ PROTEIN	1 @	26.50	26.50
CAPLUS FILE COST=			